

ABSTRACT

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Straight, nano-scale-order amorphous carbon  
tubes having a long-term stable ability for storing  
5 various kinds of gases and being stable in shape, and a  
novel process for producing said carbon tubes with high  
purity, high yield and high mass-productivity are provided.

The amorphous nano-scale carbon tubes are  
prepared by subjecting a heat-decomposable resin having a  
10 decomposition temperature of 200 to 900°C to an excitation  
treatment in the presence of a metal powder and/or a metal  
salt, or by subjecting a carbon material containing  $-C\equiv C-$   
and/or  $=C=$  to a heat-treatment at 3000°C or lower.